

**WHAT IS CLAIMED IS:**

1. A non-human transgenic animal having a genome comprising at least one copy of a transgene encoding a human bradykinin B1 receptor protein, or a functional equivalent thereof, and which exhibits a null phenotype for the native form of the bradykinin B1 receptor, such that the transgenic animal demonstrates a humanized B1 bradykinin receptor binding profile.
2. A non-human transgenic animal of claim 1 wherein the non-human transgenic animal is a mouse.
3. A non-human transgenic animal of claim 1 wherein the transgene encoding human bradykinin B1 receptor protein, or portion thereof, directly replaces the gene encoding the native form of bradykinin B1.
4. A non-human transgenic animal of claim 3 wherein the non-human transgenic animal is a mouse.
5. A non-human transgenic animal of claim 3 wherein the transgene encoding human bradykinin B1 receptor protein, or portion thereof, directly replaces the gene encoding the native form of bradykinin B1 and said human B1 bradykinin gene is operatively fused to the native bradykinin B1 receptor protein.
6. A non-human transgenic animal of claim 5 wherein the non-human transgenic animal is a mouse.
7. A non-human transgenic animal which comprises a gene targeting construct containing at least a nucleotide sequence encoding a human bradykinin B1 receptor protein, or a functional equivalent thereof, and a floxed marker gene, and which exhibits a null phenotype for the native form of the bradykinin B1 receptor, such that the transgenic animal demonstrates a humanized B1 bradykinin receptor binding profile.
8. A non-human transgenic animal of claim 7 wherein the non-human transgenic animal is a mouse.

9. A non-human transgenic animal of claim 7 wherein the gene targeting construct has been inserted into the genome of the transgenic animal so as to directly replace the gene encoding the native form of bradykinin B1.

10. A non-human transgenic animal of claim 9 wherein the non-human transgenic animal is a mouse.

11. A non-human transgenic animal of claim 8 wherein the floxed gene has been excised.

12. A non-human transgenic animal of claim 10 wherein the floxed gene has been excised.